

Patent Abstracts of Japan

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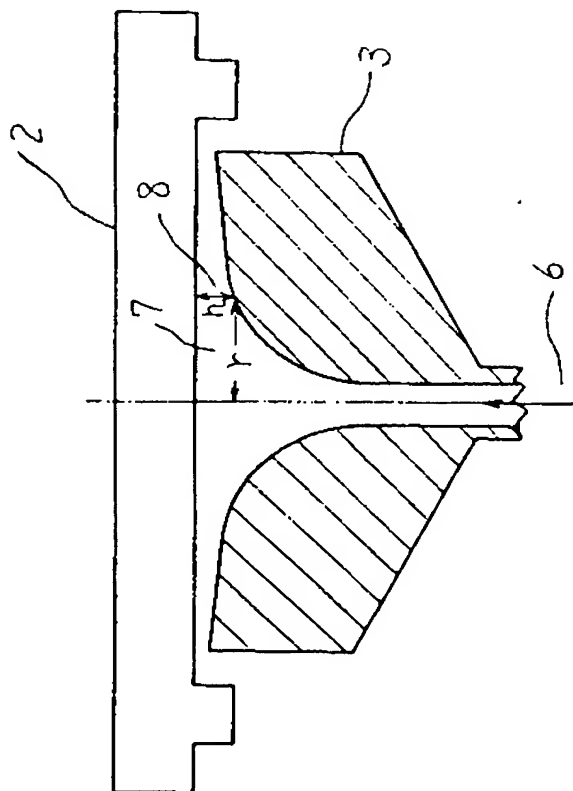
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TITLE : ROTARY ATOMIZER



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**ABSTRACT :** PURPOSE: To prevent the decrease in a cooling effect and to realize the stable cooling effect with cooling liquid flow by forming the gap between a flow regulating plate and a cooling plate provided in the disc device of a rotary atomizer to the size smaller toward the outside in a radial direction.

CONSTITUTION: The gap between the bottom surface of a cooling plate 2 forming a disc device and the top surface of a flow regulating plate 3 in a rotary atomizer for producing metallic powder is formed to the size smaller from the axis of rotation toward the outside. The product of the dimension (r) 7 and the dimension (h) 8 is kept in a specified range to maintain the specified speed of cooling liquid flow 6. A projection is provided on the top surface of the plate 3 to maintain the surface of the rotating plate 2 always clean. A stable cooling effect is obtd. with such device even if the disc device is rotated at a high speed.

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